

# इंटरनेट

# मानक

## Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

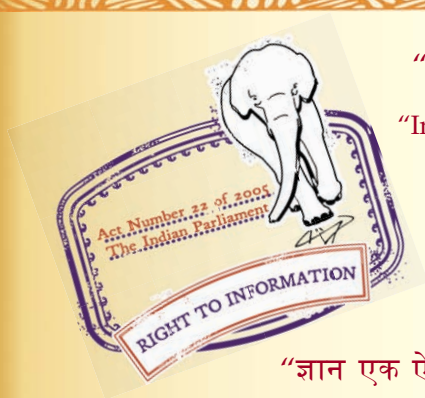
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11719-1-1 (1986): Dimensions of mechanical structures of the 482.6 mm series, Part 1: Cabinets and pitches of rack structures, Section 1: Cabinets [LITD 3: Electromechanical Components and Mechanical Structures for Electronic Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



BLANK PAGE



*Indian Standard*

# DIMENSIONS OF MECHANICAL STRUCTURES OF THE 482.6 mm SERIES

## PART 1 CABINETS AND PITCHES OF RACK STRUCTURES

### Section 1 Cabinets

**1. Scope** — Covers basic dimensions of free-standing cabinets used in 482.6 mm rack and panel electronic equipment practice.

**2. Description** — For the purpose of this standard, a cabinet is defined as a free-standing and self-supporting enclosure for electronic equipment capable of being used alone or in combination with other cabinets to form a suite. A cabinet may or may not have a plinth, feet, rollers, castors, etc, depending on the load-carrying and mobility requirements of the user.

It may be fitted with doors or side panels or both on one or more sides to suit the application.

A cabinet will house or incorporate vertical members to which can be attached panels, etc, in accordance with IS : 9606-1980 'Dimensions of panels and racks ( 482.6 mm system )'.

A rack is a metallic structure without doors or coverings.

**3. Basic Dimensions** — Basic dimensions and other details are given in Fig. 1.

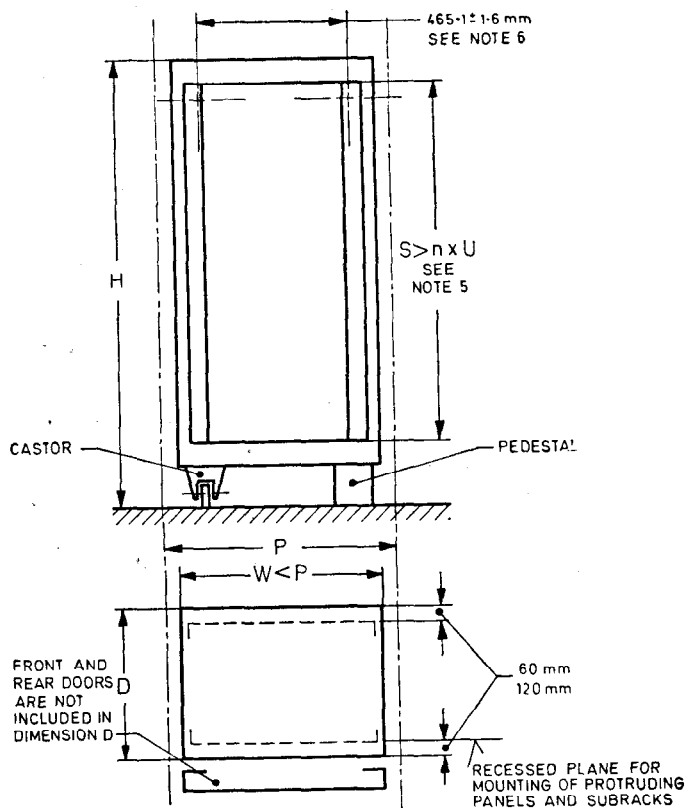
### EXPLANATORY NOTE

This standard (Part 1) is based, without any technical change, on IEC Pub 297-2 (1982) 'Dimensions of mechanical structures of the 482.6 mm (19 inch) series', issued by the International Electrotechnical Commission (IEC).

Adopted 25 April 1986

© January 1987, ISI

Gr 1



**Note 1** — The values for height,  $H$ , and depth,  $D$ , are overall cabinet dimensions to which normal production tolerances apply. The castor wheel or pedestal mounted racks may have height more than  $H$  depending on the manner of mounting the castor wheels.

**Note 2** — For height, an increment of 200 mm is chosen ( $2 \times 200 \text{ mm} = 9 U$ ).

**Note 3** — The pitch,  $P$ , is the theoretical distance between datum lines for mounting of cabinets in a row. The width  $W < P$  shall be chosen and tolerated so that a suite of cabinets can be installed with the required pitch; in special cases where other pitch dimensions are required, these shall be in increments of 100 mm.

**Note 4 —** For depth, an increment of 200 mm is chosen. The intermediate size of 450 mm is a recommended value.

**Note 5** — *S* designates the vertical aperture for mounting of panels and subracks and is a typical dimension only. In order to facilitate economy in manufacturing racks of different heights, the aperture between top and bottom frames may be more than *S* but in such cases the aperture in excess of *S* should be covered by dummy panels, or otherwise by the manufacturer of the cabinets, *U* is the vertical increment 44.45 mm according to IS : 9606-1980.

**Note 6 —** For fixing dimensions, see IS : 9606-1980.

Height, $H$ (mm)	800	1 000	1 200	1 400	1 600	1 800	2 000	2 200
$S (= n \times u)$	$13 \times U$	$18 \times U$	$22 \times U$	$27 \times U$	$31 \times U$	$36 \times U$	$40 \times U$	$45 \times U$
Pitch, $P$ (mm)	550*	600	700†	800	900	—	—	—
Depth $D$ (mm)	400	450‡	600	650§	800	900	—	—

\*For applications where space is restricted to less than 600 mm and side cabling within the cabinet is minimal.

†Principally for applications involving swinging racks.

†The basic depth of 450 mm allows the addition of maintenance controls, cooling fins and covers at front and rear to increase the overall depth to 520 mm.

§Not recommended for future applications.

**FIG. 1 BASIC DIMENSIONS**